

The following document was transcribed by Jim Armstrong from copies or copies of copies of original Gamewell Literature. They were provided to me by the former Chief of the Weaverville Fire Department, a very helpful man named Dick Berrien.

Diaphone Horn with Reducing Valve and Dirt Strainer

Diaphone Horn

The horn consists essentially of a cylinder, an air driven piston and a projector. The oscillations of the piston serve to interrupt the flow of air through coincident peripheral openings, thereby directly producing sound waves of a pitch which will carry distinctly through other sounds and noises.

The normal blowing pressure of the horn equipped with an aluminum piston is 30 to 35 lbs., as shown by a gauge directly at the horn. The gauge should be removed and a pipe plug inserted in its place when the blowing pressure has been adjusted.

Reducing Valve and Dirt Strainer

The reducing valve or pressure regulator is adjustable over a wide range. It reduces the air reservoir pressure to the desired horn operating pressure. Adjustment is made by turning the screw on the bottom of the regulator.

The dirt strainer traps foreign matter in the air line, preventing it from reaching the electric valve and horn. The cleanout plug is located on the bottom of the strainer.

The reducing valve should be cleaned at least once a year. Gasoline may be used on all metal parts to remove any oil or dirt accumulation which may come through the air line.